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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|----------------------------|-----------------------|-----------------------|---------------------|------------------|
| 10/776,870 | 02/11/2004 | Juri Heinrich Krieger | H2016CIP | 3885 |
| 23623 75 | 23623 7590 10/10/2006 | | EXAMINER | |
| AMIN, TUROCY & CALVIN, LLP | | | PHAN, TRONG Q | |
| | H STREET, NATIONAL C | CITY CENTER | ART UNIT | PAPER NUMBER |
| 24TH FLOOR, CLEVELAND. | | | 2827 | TATERNOMBER |

DATE MAILED: 10/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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| _ | 71 |

| | Application No. | Applicant(s) | | | |
|---|---|-------------------------|--|--|--|
| Office A 41 - 11 October 1991 | 10/776,870 | KRIEGER ET AL. | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| • | TRONG PHAN | 2827 | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | |
| Status | | | | | |
| 1) Responsive to communication(s) filed on 14 At | ugust 2006. | | | | |
| | action is non-final. | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | |
| closed in accordance with the practice under E | x parte Quayle, 1935 C.D. 11, 45 | 53 O.G. 213. | | | |
| Disposition of Claims | | | | | |
| 4)⊠ Claim(s) 1,2 and 4-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5)□ Claim(s) is/are allowed. | | | | | |
| 6) Claim(s) is/are rejected. | | | | | |
| 7) Claim(s) is/are objected to | | | | | |
| 8) Claim(s) 1,2 and 4-23 are subject to restriction | and/or election requirement. | | | | |
| Application Papers | | | | | |
| 9) The specification is objected to by the Examine | г. | | | | |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. | | | | | |
| Applicant may not request that any objection to the | drawing(s) be held in abeyance. See | e 37 CFR 1.85(a). | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | |
| 11)☐ The oath or declaration is objected to by the Ex | aminer. Note the attached Office | Action or form PTO-152. | | | |
| Priority under 35 U.S.C. § 119 | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: | | | | | |
| 1. Certified copies of the priority documents have been received.2. Certified copies of the priority documents have been received in Application No | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). | | | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | |
| | | | | | |
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| Attachment(s) | | | | | |
| Notice of References Cited (PTO-892) | 4) Interview Summary Paper No(s)/Mail D | (PTO-413) ate | | | |
| Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date | 5) Notice of Informal P | | | | |
| Patent and Trademark Office | | <u></u> | | | |

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DETAILED ACTION

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1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-2 and 4-8, drawn to a system that programs a memory cell, classified in class 257, subclass 315.
- II. Claims 9-12, drawn to a method of programming a memory cell, classified in class 257, subclass 315.
- III. Claims 13-17, drawn to a method of programming information in a memory cell, classified in class 257, subclass 315.
- IV. Claims 18-21, drawn to a memory cell, classified in class 257, subclass 315.
- V. Claims 22-23, drawn to a system for programming a memory cell, classified in class 365, subclass 151.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I, II, III, IV and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions I, II, III, IV and V are not disclosed as capable of use together and they have different designs, modes of operation, and effects.
- 3. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art due to their

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recognized divergent subject matter, restriction for examination purposes as indicated is proper.

4. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Response to Arguments

4. Applicant's arguments filed on 8/14/06 have been fully considered and are persuasive. Therefore, the last office action of 5/15/06 has been withdrawn.

However, in view of Applicant's amendments and upon reconsideration, a new Non-FINAL restriction requirement has been set forth as above.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to TRONG PHAN whose telephone number is (571) 272-

1794. The examiner can normally be reached on M-F (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, AMIR ZARABIAN can be reached on (571)272-1852. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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PRIMARY EXAMINER